

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1 (Currently Amended) An image display apparatus comprising:  
image display means including a pixel in a region near an intersection at  
which each of signal lines and each of scanning lines are intersected each other,  
said signal lines and said scanning lines being arranged in a matrix shape, and said  
pixel being connected to said signal line and said scanning line via an switch  
element;

a group of gradation voltage lines applied to provide analogue gradation  
voltages in accordance with display gradations;

decoder means for producing switch drive signals by which any one of said  
gradation voltage lines is selected in accordance with digital high-gradation image  
data;

trigger signal output means for sequentially producing trigger signals in  
accordance with said image data; and

a plurality of switch means, coupled to receive said switch drive signals and  
said trigger signals, for selecting a specified gradation voltage line in response to  
said switch drive signals under condition in which said trigger signals are inputted to  
said switch means, to supply a gradation voltage from said specified gradation  
voltage line to a specified signal line.

Claim 2 (Original) An image display apparatus according to claim 1, wherein said decoder means is divided into a plurality of decoders which are arranged to oppose each other.

Claim 3 (Original) An image display apparatus according to claim 1, wherein a plurality of switch drive lines for transmitting said switch drive signals are connected to said decoder means; a plurality of trigger lines for transmitting said trigger signals are connected to said trigger signal output means; and output lines for transmitting said specified gradation voltage to said specified signal line are connected to said plurality of switch means.

Claim 4 (Currently Amended) An image display apparatus comprising:  
image display means including a pixel in a region near an intersection at  
which each of signal lines and each of scanning lines are intersected each other,  
said signal lines and said scanning lines being arranged in a matrix , and said pixel  
being connected to said signal line and said scanning line via an switch element;  
a group of gradation voltage lines to provide analogue gradation voltages in  
accordance with display gradations;  
decoder means for producing switch drive signals by which any one of said  
gradation voltage lines is selected in accordance with digital high-gradation image  
data;  
trigger signal output means for sequentially producing trigger signals in  
accordance with said image data; and

a plurality of switch means, coupled to receive said switch drive signals and said trigger signals, for selecting a specified gradation voltage line in response to said switch drive signals under condition in which said trigger signals are inputted to said switch means, to supply a gradation voltage from said specified gradation voltage line to a specified signal line;

wherein a plurality of switch drive lines for transmitting said switch drive signals are connected to said decoder means;

a plurality of trigger lines for transmitting said trigger signals are connected to said trigger signal output means;

output lines for transmitting said specified gradation voltage to said specified signal line are connected to said plurality of switch means; and

~~An image display apparatus according to claim 3, wherein said plurality of switch drive lines and said group of gradation voltage lines are arranged to intersect said plurality of trigger lines and said output lines.~~

Claim 5 (Original) An image display apparatus according to claim 4, wherein said group of gradation voltage lines are arranged in parallel along said plurality of switch drive lines.

Claim 6 (Original) An image display apparatus according to claim 4, wherein one of said switch drive lines is arranged in parallel with one gradation voltage line of said group of gradation voltage lines.

Claim 7 (Original) An image display apparatus according to claim 4, wherein two switch drive lines of said switch drive lines are arranged in parallel on both sides of one gradation voltage line of said group of gradation voltage lines.

Claim 8 (Currently Amended) An image display apparatus comprising:  
image display means including a pixel in a region near an intersection at  
which each of signal lines and each of scanning lines are intersected each other,  
said signal lines and said scanning lines being arranged in a matrix, and said pixel  
being connected to said signal line and said scanning line via an switch element;  
a group of gradation voltage lines to provide analogue gradation voltages in  
accordance with display gradations;  
decoder means for producing switch drive signals by which any one of said  
gradation voltage lines is selected in accordance with digital high-gradation image  
data;  
trigger signal output means for sequentially producing trigger signals in  
accordance with said image data; and  
a plurality of switch means, coupled to receive said switch drive signals and  
said trigger signals, for selecting a specified gradation voltage line in response to  
said switch drive signals under condition in which said trigger signals are inputted to  
said switch means, to supply a gradation voltage from said specified gradation  
voltage line to a specified signal line;  
wherein a plurality of switch drive lines for transmitting said switch drive  
signals are connected to said decoder means;  
a plurality of trigger lines for transmitting said trigger signals are connected to  
said trigger signal output means;

output lines for transmitting said specified gradation voltage to said specified  
signal line are connected to said plurality of switch means; and

~~An image display apparatus according to claim 3, wherein said group of~~  
gradation voltage lines and said plurality of switch drive lines are formed as a same  
wiring layer.

Claim 9 (Original) An image display apparatus according to claim  
3, wherein said plurality of trigger lines and said output lines are formed as a same  
wiring layer.

Claim 10 (Original) An image display apparatus according to claim  
3, wherein distribution means for distributing output voltages from said output lines  
to said plurality of signal lines is provided between said output lines and said plurality  
of signal lines.

Claim 11 (Original) An image display apparatus according to claim  
8, wherein said group of gradation voltage lines and said plurality of switch drive  
lines are made of a wiring material of aluminum or copper.

Claim 12 (Original) An image display apparatus according to claim  
1, wherein when  $n$  is a display gradation number, a wiring number of said group of  
gradation voltage lines is in a range from  $n$  to  $2n$ .

Claim 13 (Original) An image display apparatus according to claim 1, wherein said image display means, said group of gradation voltage lines, said plurality of switch means and said trigger signal output means are formed on a same substrate.

Claim 14 (Original) An image display apparatus according to claim 13, wherein said decoder means is disposed on a surface of said substrate or on a periphery of said substrate.

Claim 15 (Original) An image display apparatus according to claim 1, wherein said image display means, said group of gradation voltage lines, said plurality of switch means, said decoder means and said trigger signal output means are formed on a same substrate.

Claim 16 (Original) An image display apparatus according to claim 1, wherein said trigger signal output means is formed using a shift register circuit.

Claim 17 (Currently Amended) An image display apparatus comprising: image display means including a pixel in a region near an intersection at which each of signal lines and each of scanning lines are intersected each other, said signal lines and said scanning lines being arranged in a matrix shape, and said pixel being connected to said signal line and said scanning line via an switch element;

a group of gradation voltage lines applied to provide analogue gradation voltages in accordance with display gradations;

decoder means for producing switch drive signals by which any one of said gradation voltage lines is selected in accordance with digital high-gradation image data;

trigger signal output means for sequentially producing trigger signals in accordance with said image data; and

a plurality of switch means, coupled to receive said switch drive signals and said trigger signals, for selecting a specified gradation voltage line in response to said switch drive signals under condition in which said trigger signals are inputted to said switch means, to supply a gradation voltage from said specified gradation voltage line to a specified signal line;

An image display apparatus according to claim 1, wherein

each of said plurality of switch means includes:

a first thin film transistor which becomes conductive by being inputted said trigger signal to transmit said switch drive signal; and

a second thin film transistor which becomes conductive by said switch drive signal produced from said first thin film transistor to transmit a gradation voltage to said output line.

Claim 18 (Original) An image display apparatus according to claim 17, wherein each of said plurality of switch means includes a condenser for holding said switch drive signal produced from said first thin film transistor.

Claim 19 (Original) An image display apparatus according to claim

18, wherein said condenser is an electrostatic capacity formed by overlapping any one gradation voltage line of said group of gradation voltage lines and an electrode formed in a wiring layer different from said group of gradation voltage lines.

Claim 20 (Original) An image display apparatus according to claim 17, wherein each of said plurality of switch means includes memory means for storing said switch drive signal produced from said first thin film transistor as at least one-bit information.

Claim 21 (Original) An image display apparatus according to claim 17, wherein said plurality of switch means are disposed in regions near intersections at which said switch drive lines and said trigger lines are intersected each other, respectively.

Claim 22 (Original) An image display apparatus according to claim 17, wherein said first thin film transistor and said second thin film transistor are formed using n-channel thin film transistors when the gradation voltage on said gradation voltage line is relatively smaller than a signal voltage on said switch drive line, and are formed using p-channel thin film transistors when the gradation voltage on said gradation voltage line is relatively higher than the signal voltage on said switch drive line.

Claim 23 (Original) An image display apparatus according to claim 17, wherein each of said plurality of switch means includes voltage level conversion means for amplifying said switch drive signal.

Claim 24 (Original) An image display apparatus according to claim 23, wherein wiring lines for supplying a particular voltage and a common signal to said voltage level conversion means are arranged in parallel in said group of gradation voltage lines.

Claim 25 (Original) An image display apparatus according to claim 1, further comprising voltage generation means for applying different voltages to said group of gradation voltage lines.

Claim 26 (Original) An image display apparatus according to claim 25, wherein said voltage generation means includes a plurality of ladder resistors connected in series with a voltage source.

Claim 27 (Original) An image display apparatus according to claim 25, wherein said voltage generation means is formed on a same substrate as said image display means, said group of gradation voltage lines, said plurality of switch means and said trigger signal output means.

Claim 28 (Original) An image display apparatus according to claim 1, wherein each of said pixel includes a liquid crystal interposed between a pair of substrates including a transparent insulating substrate; and a light transmission factor of said liquid crystal is changed in accordance with a voltage fed from said switch element connected to said pixel.

Claim 29 (Original) An image display apparatus according to claim 1, wherein each of said pixels includes a light emitting film formed on an insulating substrate; and a light emission intensity of said light emitting film is changed in accordance with a voltage from said switch element connected to said pixel.

Claim 30 (Original) An image display apparatus according to claim 1, further comprising scanning means for sequentially supplying scanning pulses to said plurality of scanning lines.

Claim 31 (Currently Amended) An image display apparatus comprising:  
image display means including a pixel in a region near an intersection at  
which each of signal lines and each of scanning lines are intersected each other,  
said signal lines and said scanning lines being arranged in a matrix shape, and said  
pixel being connected to said signal line and said scanning line via an switch  
element;  
a group of gradation voltage lines applied to provide analogue gradation  
voltages in accordance with display gradations;  
decoder means for producing switch drive signals by which any one of said  
gradation voltage lines is selected in accordance with digital high-gradation image  
data;  
trigger signal output means for sequentially producing trigger signals in  
accordance with said image data; and

a plurality of switch means, coupled to receive said switch drive signals and said trigger signals, for selecting a specified gradation voltage line in response to said switch drive signals under condition in which said trigger signals are inputted to said switch means, to supply a gradation voltage from said specified gradation voltage line to a specified signal line;

~~A method of driving an image display apparatus according to claim 1, wherein when said image display apparatus is driven, a drive frequency at which said switch drive signals are supplied from said decoder means to said plurality of switch drive lines is set to twice or more as high as a drive frequency at which said trigger signals are supplied from said trigger signal output means.~~

Claim 32 (Original) A method according to claim 31, wherein  
a number of simultaneous data switching for a gradation data inputted to said decoder means is two or less; and  
said decoder means sequentially produces switch drive signals for selecting one single switch drive line in accordance with said gradation data.